

**COCCOIDS COLLECTED ON WILD PLANTS IN
SEMI-ARID REGIONS OF TEXAS AND
MEXICO (HOMOPTERA)**

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Below is a list of Coccoidea which were collected on wild plants in semi-arid regions of Texas and Mexico, mostly, however, in Hidalgo County of the Lower Rio Grande Valley of Texas. In every instance the locality (or localities) in which the coccoid was taken is listed, as is the host (or hosts).

The coccoids were collected in 1922, 1926, 1927, and 1928, and were identified by Dr. Harold Morrison, of Washington, D. C., unless otherwise noted. The hosts were identified by the late Professor H. Ness and Mr. V. L. Cory, both of the Texas Agricultural Experiment Station, by Dr. Paul C. Standley, of the U. S. National Museum, and by Dr. Frederick V. Coville, of the U. S. Department of Agriculture. The common names of the plants (placed in parentheses after the technical ones) were learned from obliging Mexicans in the interior of Mexico and along the Texas-Mexico border. In most instances these are the only names by which the plants, in their habitats, are known to the inhabitants.

The species are listed under their respective families, along with the hosts and localities, as follows:

ASTEROLECANIIDÆ

Lecaniodiaspis sp. on bark of *Populus* sp. (álamo) at Presidio, Presidio County, Texas.

Solenococcus sp. nearest to *artemisiæ* (Ckll.) on *Amyris parvifolia* A. Gray (barreta) and *Ricinella vaseyi* C. & F. at Mission, Hidalgo County, Texas.

DACTYLOPHIDÆ

Dactylopius tomentosus (Lam.) on *Opuntia* sp. at Mission, Hidalgo County, Texas.

PSEUDOCOCCIDÆ

Pseudococcus sp., or a closely related genus; quite possibly undescribed; on *Salix* sp. at Mission, Hidalgo County, Texas.¹

LACCIFERIDÆ

Tachardiella mexicana (Comst.) on *Pithecolobium flexicaule* (Benth.) Coulter (éban), *Pithecolobium brevifolium* Benth., *Acacia amentaceae* DC (chaparro prieto), *Acacia farnesiana* (Linn.) Willd. (huisache), and *Prosopis chilensis* (Molina) Stuntz (mezquite) at Mission, Hidalgo County, Texas.

COCCIDÆ

Ceroplastes cirripediformis Comst. on *Karwinskia humboldtiana* Zucc. (coyotillo) at Mission, Hidalgo County, Texas.

Ceroplastes irregularis Ckll. on *Atriplex canescens* (Pursh.) James at a point locally known as Fossil Hill, between Alpine and Terlingua, Brewster County, Texas.

DIASPIDÆ

Aspidiotus coursetiæ Marl. on bark of *Celtis pallida* Torr. (granjeno), *Leucophyllum texanum* Benth. (cenizo), *Amyris parvifolia* A. Gray (barreta), *Xanthoxylum pterota* H. B. K. (colima), *Cercidium floridum* Benth. (retama or palo verde), *Karwinskia humboldtiana* Zucc. (coyotillo), *Porliera angustifolia* (Engelm.) A. Gray (guayacán), *Pithecolobium brevifolium* Benth., and *Ricinella vaseyi* C. & F. at Mission, Hidalgo County, Texas, and on *Acacia* sp. (largoncillo) at Chihuahua, Chihuahua, Mexico.

Aspidiotus sp. very close to *coursetiæ* Marl. on *Salix* sp. and *Amyris parvifolia* A. Gray (barreta) at Mission, Hidalgo County, Texas.

Aspidiotus diffinis Newst. on leaves of *Porliera angustifolia* (Engelm.) A. Gray (guayacán) at Mission, Hidalgo County, Texas.

Aspidiotus herculeanus D. & H. on *Acacia farnesiana* (Linn.) Willd. (huisache) at Mission, Hidalgo County, Texas.

¹ Associated with this pseudococcid were two species of ants determined by Dr. W. M. Mann as *Pseudomyrma gracilis* var. *mexicana* Roger and *Crematogaster lineolata* var. *clara* Mayr.

Aspidiotus juglans-regia Comst. on *Salix* sp. at Presidio, Presidio County, Texas.

Aspidiotus latania Sign. on *Baccharis neglecta* Britton (jara china), *Condalia obovata* Hooker (abrojo), and *Prosopis chilensis* (Molina) Stuntz (mezquite), galls of, at Mission, Hidalgo County, Texas, and on *Cercidium floridum* Benth. (retama or palo verde) at Weslaco, Hidalgo County, Texas.

Aspidiotus subsimilis Ckll.² on bark of *Prosopis chilensis* (Molina) Stuntz (mezquite) at Tlahualilo, Durango, Mexico, and *Jatropha spathulata* (Ort.) Muell. (sangre de drago) at Mohovano, Durango, Mexico.

Chionaspis sp. that does not agree fully with any of our species, resembling European *C. salicis* (Linn.) more nearly than American *C. salicis-nigræ* (Walsh); also resembling *C. longiloba* Cooley in some respects and *C. corni* Cooley in others; on *Salix* sp. at Mission, Hidalgo County, Texas.

Chrysomphalus sp. closest to *apicatus* Newst. and *phenax* Ckll., not certainly identical with either, perhaps undescribed, on *Celtis pallida* Torr. (granjeno) at Mission, Hidalgo County, Texas.

Chrysomphalus sp. closest to *apicatus* Newst., quite possibly undescribed, on *Salix* sp. at Mission, Hidalgo County, Texas.

Chrysomphalus sp. close to *lilacinus* Ckll. on *Acacia berliandieri* Benth. at Mission, Hidalgo County, Texas.

Chrysomphalus sp. closely related to *perseæ* (Comst.) and *albopictus* (Ckll.) on leaves of *Pithecolobium flexicaule* (Benth.) Coulter (ébano) at Mission, Hidalgo County, Texas.

Chrysomphalus scutiformis (Ckll.) on leaves of *Porlieria angustifolia* (Engelm.) A. Gray (guayacán), *Pithecolobium flexicaule* (Benth.) Coulter (ébano), and *Phaulothamnus spinescens* A. Gray (panalero or ojo de víbora) at Mission, Hidalgo County, Texas.

Chrysomphalus sp. on galls of *Prosopis chilensis* (Molina) Stuntz (mezquite) at Mission, Hidalgo County, Texas.

Diaspis echinocacti cacti Comst. on *Opuntia leptocaulis* DC. at Mission, Hidalgo County, Texas.

² Identified by Mr. G. B. Merrill of the Florida State Plant Board.

Diaspis texensis (Ckll.) on *Koeberlinia spinosa* Zucc. (junco) and *Castela nicholsoni* Hooker (amargosa), leaves of, at Mission, Hidalgo County, Texas.

Diaspis sp. near *townsendi* Ckll. on unidentified plant at Mission, Hidalgo County, Texas.

Pseudodiaspis yuccæ (Ckll.) on bark of *Acacia berlianderi* Benth. and *Acacia farnesiana* (Linn.) Willd. (huisache) at Mission, Hidalgo County, Texas.³

Lepidosaphes mimosarum (Ckll.) on *Prosopis chilensis* (Molina) Stuntz (mezquite), *Pithecolobium flexicaule* (Benth.) Coulter (ébanos), and *Pithecolobium brevifolium* Benth. at Mission, Hidalgo County, Texas.

Lepidosaphes sp. close to *mimosarum* (Ckll.) on *Acacia* sp. probably *farnesiana* (Linn.) Willd. at Castolon, Brewster County, Texas.

Lepidosaphes sp. on *Atriplex canescens* (Pursh.) James at a point locally known as Fossil Hill, between Alpine and Terlingua, Brewster County, Texas.

Targionia yuccarum (Ckll.) on *Baccharis* sp. at Presidio, Presidio County, Texas.

Xerophilaspis prosopidis Ckll. on *Prosopis chilensis* (Molina) Stuntz (mezquite) at Castolon, Brewster County, Texas.

Pseudoparlatoria parlatoroides (Comst.) on *Porliera angustifolia* (Engelm.) A. Gray (guayacán), leaves of, and *Amyris parvifolia* A. Gray (barreta) at Mission, Hidalgo County, Texas.

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³ On each of the hosts, this diaspid was being destroyed by an entomogenous fungus determined as *Sphaerostilbe coccophila* (Desm.) Tul. by Vera K. Charles of the U. S. Department of Agriculture.

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